

C.O.C. # 84

# CHAIN OF CUSTODY REPORT

Work Order #: PF0693

CLIENT: Bristol		INVOICE TO: Bristol	
REPORT TO: Anne Kramm-Wether		P.O. NUMBER: 21090	
ADDRESS: Amchitka Island			
PHONE: 770-0974 FAX: 770-0975			
PROJECT NAME: Amchitka		REQUESTED ANALYSES	
PROJECT NUMBER: 21090			
SAMPLED BY: Ckm			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1. DIAMTX02MI	6/14/01 1405	X	
2. DIAMTX03MI	6/14/01 1415	X	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

TURNAROUND REQUEST in Business Days*			
Organic & Inorganic Analyses			
10	7	5	4 3 2 1 <1
STD.		Petroleum Hydrocarbon Analyses	
5 4 3 2 1 <1		STD.	
OTHER		Please Specify	
*Turnaround Requests less than standard may incur Rush Charges.			
MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA W ID
0	3		
0	3		

RELINQUISHED BY: <i>Charlie Marshall</i>	DATE: 6/15/01	RECEIVED BY: <i>Craig Bradlee</i>	DATE: 6/15/01
PRINT NAME: Charlie Marshall	TIME: 0821	PRINT NAME: Craig Bradlee	TIME: 0821
RELINQUISHED BY:	DATE:	RECEIVED BY: <i>Rachel Arriola</i>	DATE: 6/22/01
PRINT NAME:	TIME:	PRINT NAME: Rachel Arriola	TIME: 12:56

ADDITIONAL REMARKS:



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425.420.9200 fax 425.420.9210  
**Spokane** East 1st, Suite B, Spokane, WA 99206-4776  
509.520.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

6 July, 2001

Anne Krarawetter  
Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/22/01 12:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jerry Orlando  
Project Manager/QA

Work Orders included in this report:

**P1F0693**

Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Reported:**  
07/06/01 13:43

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTX02MI	PIF0693-01	Water	06/14/01 14:05	06/22/01 12:56
01AMTX03MI	PIF0693-02	Water	06/14/01 14:15	06/22/01 12:56

North Creek Analytical - Portland

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

  
Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 4

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

**Reported:**  
 07/06/01 13:43

### Glycols by GC/FID


#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTX02MI (P1F0693-01) Water</b>						Sampled: 06/14/01 Received: 06/22/01		<b>I-05,R-05</b>	
Diethylene Glycol	ND	20000	mg/l	1000	EPA 8015m	07/03/01	07/03/01	1070867	
Ethylene Glycol	ND	20000	"	"	"	"	"	"	
<b>Propylene Glycol</b>	<b>326000</b>	20000	"	"	"	"	"	"	
<i>Surr: 1,2-Pentanediol</i>	<i>NR</i>	<i>50-150</i>							<i>S-01</i>

<b>01AMTX03MI (P1F0693-02) Water</b>						Sampled: 06/14/01 Received: 06/22/01		<b>I-05,R-05</b>	
Diethylene Glycol	ND	20000	mg/l	1000	EPA 8015m	07/03/01	07/03/01	1070867	
Ethylene Glycol	ND	20000	"	"	"	"	"	"	
<b>Propylene Glycol</b>	<b>281000</b>	20000	"	"	"	"	"	"	
<i>Surr: 1,2-Pentanediol</i>	<i>NR</i>	<i>50-150</i>							<i>S-01</i>

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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2 of 4

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/06/01 13:43


### Glycols by GC/FID - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1070867 - GC Semivolatiles</b>										
<b>Blank (1070867-BLK1)</b>				Prepared & Analyzed: 07/03/01						
Diethylene Glycol	ND	20.0	mg/l							
Ethylene Glycol	ND	20.0	"							
Propylene Glycol	ND	20.0	"							
<i>Surr: 1,2-Pentanediol</i>	201		"	200		100	50-150			
<b>LCS (1070867-BS1)</b>				Prepared & Analyzed: 07/03/01						
Diethylene Glycol	187	20.0	mg/l	200		93.5	50-150			
Ethylene Glycol	189	20.0	"	200		94.5	50-150			Q-23
Propylene Glycol	195	20.0	"	200		97.5	50-150			Q-23
<i>Surr: 1,2-Pentanediol</i>	209		"	200		104	50-150			
<b>Duplicate (1070867-DUP1)</b>				Source: P1F0693-01		Prepared & Analyzed: 07/03/01				
Diethylene Glycol	ND	20.0	mg/l		ND				50	
Ethylene Glycol	ND	20.0	"		ND				50	
Propylene Glycol	241000	20.0	"		326000			30.0	50	E
<i>Surr: 1,2-Pentanediol</i>	186		"	200		93.0	50-150			
<b>Matrix Spike (1070867-MS1)</b>				Source: P1F0693-01		Prepared & Analyzed: 07/03/01				
Diethylene Glycol	194	20.0	mg/l	200	ND	97.0	50-150			
<i>Surr: 1,2-Pentanediol</i>	182		"	200		91.0	50-150			

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3 of 4

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**Reported:**  
07/06/01 13:43

### Notes and Definitions

- E Estimated value. The reported value exceeds the calibration range of the analysis.
- I-05 This sample was received outside EPA recommended holding time.
- Q-23 The Matrix Spike/Duplicate for this batch could not be reported. Source sample contains high levels of target analyte, non-target analyte, and/or matrix interference requiring high dilution.
- R-05 Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

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